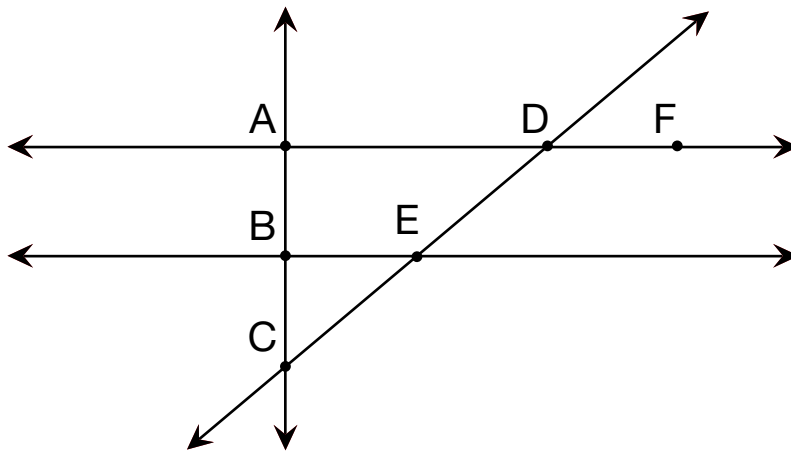


Shapes Quiz

You will need the following tools:

- Geometry Word Charts
- *Polygon Names* pages in the *Student Guide* Reference section
- 1 set of Power Polygons™
- *Shapes Quiz: Cut-Outs* page
- scissors
- ruler



Use the drawing above to answer Questions 1–2.

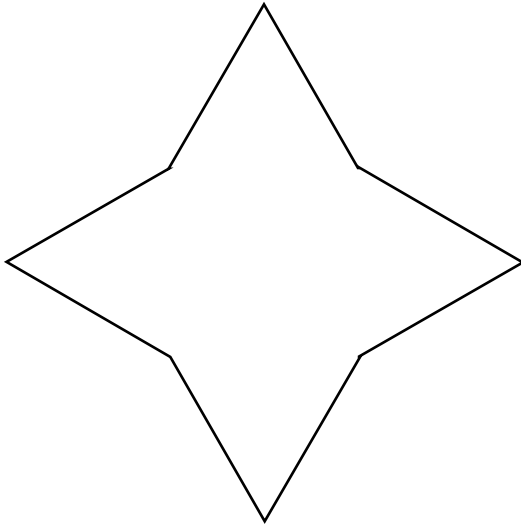
1. **A.** Name a line that intersects \overleftrightarrow{AD} , but is **not** perpendicular to \overleftrightarrow{AD} .

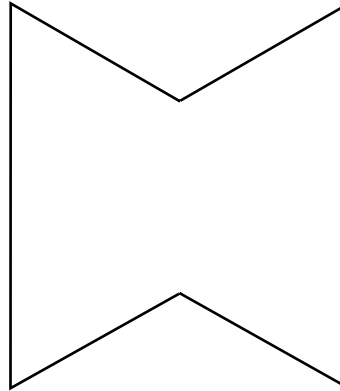
- B.** Use a ruler to draw a line parallel to \overleftrightarrow{DE} that goes through point F.

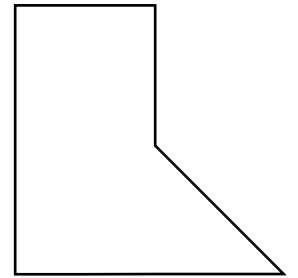
2. Ana said, “Quadrilateral ABED is a trapezoid.”
Do you agree with Ana? Use properties to show or tell how you decided.

Cut out the shapes on the *Shapes Quiz: Cut-Outs* page. Use the shapes to answer Questions 3–4. You can fold them or turn them.

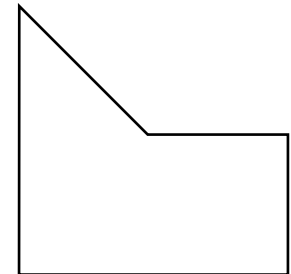
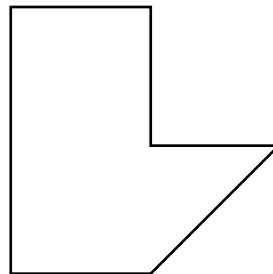
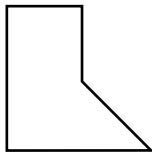
- 3.** Use a ruler to draw the lines of symmetry on each shape below. Write the number of lines of symmetry under each shape.

Star

Butterfly

Boot

- 4. A.** Circle the shape below that is congruent to the boot in Question 3.



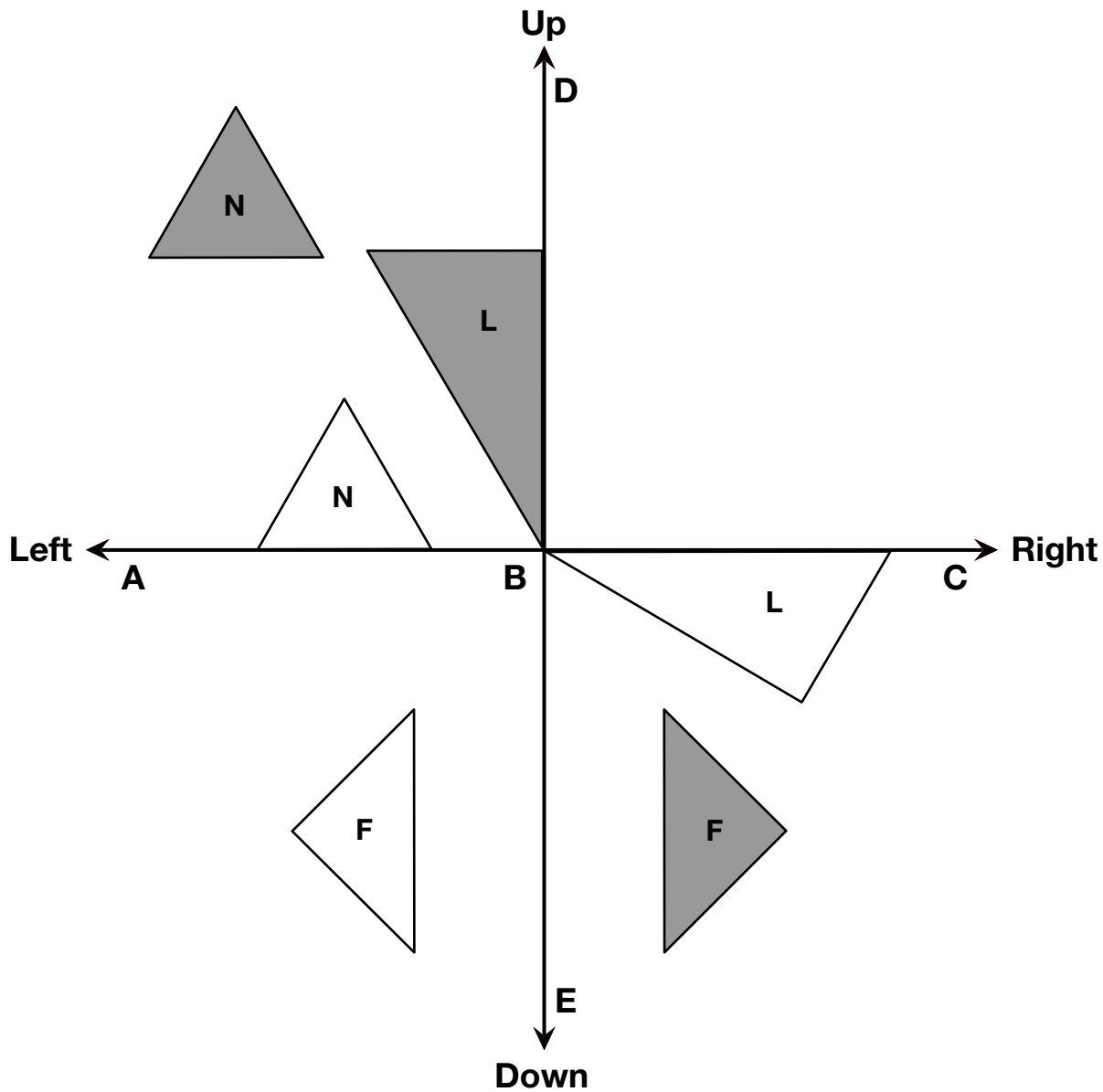
- B.** Show or tell how you know the shape you chose is congruent to the boot.

5. Describe how each shaded triangle below can move to its white copy.

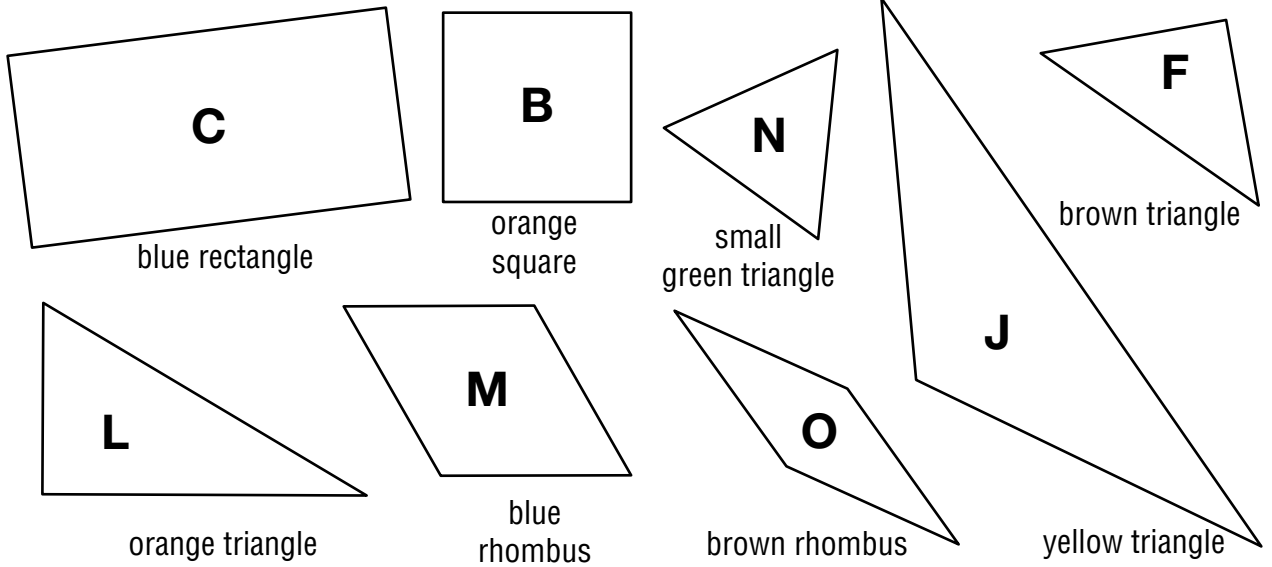
A. Triangle F

B. Triangle N

C. Triangle L



6. Use these eight Power Polygons™ from your set for this question.



Put shapes with three sides into Box A.
 Put shapes with right angles into Box B.
 Some may go in both boxes. Some may go outside the boxes.
 Sketch each shape where it belongs. Write the letter inside.
 The drawing shows you how to start.

3 sides

one or more right angles

Box A

Box B

7. Use your work from Question 6 to answer these questions:

A. What is one name for the shapes in Box A? _____

B. What is one name for the shapes in Box B that are **not** also in Box A?

C. What is one name for the shapes that are in both Box A and Box B?

D. List three properties of the shapes that are in both A and B.

**Shapes Quiz
Feedback Box**

	Expect- ation	Check In	Comments
Draw and identify perpendicular and parallel lines. [Q# 1]	E4		
Describe shapes using their properties. [Q# 2, 7D]	E5		
Analyze shapes using their properties. [Q# 2, 3, 6, 7]	E5		
Classify shapes using their properties. [Q# 6, 7]	E6		
Identify line (reflective) symmetry. [Q# 3]	E7		
Identify congruent shapes. [Q# 4]	E8		
Identify slides, flips, and turns of shapes. [Q# 5]	E9		
Explain answers using properties. [Q# 2, 4B]	E10		